

**AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL**  
(TEMPORARY FORM)

CONTROL NO: 5531

**ACKNOWLEDGED**

**DO NOT REMOVE**

FILE:

<b>FROM:</b> Duke Power Company Charlotte, N. C. 28201 A. C. Thies			<b>DATE OF DOC</b>  7-17-73	<b>DATE REC'D</b>  7-18-73	<b>LTR</b>  x	<b>MEMO</b>	<b>RPT</b>	<b>OTHER</b>
<b>TO:</b>  A. Giambusso			<b>ORIG</b>  1 signed	<b>CC</b>  40	<b>OTHER</b>	<b>SENT AEC PDR</b> x <b>SENT LOCAL PDR</b> x		
<b>CLASS</b>	<b>UNCLASS</b>	<b>PROP INFO</b>	<b>INPUT</b>	<b>NO CYS REC'D</b>  41		<b>DOCKET NO:</b>  50-269 50-270 <del>50-267</del>		
<b>DESCRIPTION:</b>  Ltr trans the following:				<b>ENCLOSURES:</b>  REVISION 1 to MDS Report No. OS-73.2, Analysis of Effects Resulting from Postulated Piping Breaks Outside Containment for Oconee Units 1, 2 & 3".  (41 cys encl rec'd)				
<b>PLANT NAME:</b> Oconee 1, 2 & 3								

FOR ACTION/INFORMATION

7-19-73 LB

BUTLER(L)	✓SCHWENCER(L)	ZIEMANN(L)	REGAN(E)
W/ Copies	W/ 4 Copies	W/ Copies	W/ Copies
CLARK(L)	STOLZ(L)	DICKER(E)	
W/ Copies	W/ Copies	W/ Copies	W/ Copies
GOLLER(L)	VASSALLO(L)	KNIGHTON(E)	
W/ Copies	W/ Copies	W/ Copies	W/ Copies
KNIEL(L)	SCHEMEL(L)	YOUNGBLOOD(E)	
W/ Copies	W/ Copies	W/ Copies	W/ Copies

**INTERNAL DISTRIBUTION**

✓ <b>REG FILE (3)</b>	<b>TECH REVIEW</b>	<b>DENTON</b>	<b>LIC ASST</b>	<b>A/T IND</b>
✓ <b>AEC PDR (3)</b>	<b>HENDRIE</b>	<b>GRIMES</b>	<b>BROWN (E)</b>	<b>BRAITMAN</b>
<b>OGC, ROOM P-506A</b>	<b>SCHROEDER</b>	<b>GAMMILL</b>	<b>DIGGS (L)</b>	<b>SALTZMAN</b>
<b>MUNTZING/STAFF</b>	<b>MACCARY</b>	<b>KASTNER</b>	<b>GEARIN (L)</b>	
<b>CASE</b>	<b>KNIGHT</b>	<b>BALLARD</b>	<b>GOULBOURNE (L)</b>	<b>PLANS</b>
<b>GIAMBUSSO</b>	<b>PAWLICKI</b>	<b>SPANGLER</b>	<b>LEE (L)</b>	<b>MCDONALD</b>
<b>BOYD</b>	<b>SHAO</b>		<b>MAIGRET (L)</b>	<b>DUBE</b>
<b>MOORE (L)(BWR)</b>	<b>STELLO</b>	<b>ENVIRO</b>	<b>SERVICE (L)</b>	
✓ <b>DEYOUNG(L)(FWR)</b>	<b>HOUSTON</b>	<b>MULLER</b>	<b>SHEPPARD (E)</b>	<b>INFO</b>
<b>SKOVHOLT (L)</b>	<b>NOVAK</b>	<b>DICKER</b>	<b>SMITH (L)</b>	<b>C. MILES</b>
<b>P. COLLINS</b>	<b>ROSS</b>	<b>KNIGHTON</b>	<b>TEETS (L)</b>	✓ <b>VARGA</b>
	<b>IPPOLITO</b>	<b>YOUNGBLOOD</b>	<b>WADE (E)</b>	✓ <b>Klecker</b>
<b>REG OPR</b>	✓ <b>TEDESCO</b>	<b>REGAN</b>	<b>WILLIAMS (E)</b>	✓ <b>CARTER</b>
<b>FILE &amp; REGION(3)</b>	✓ <b>LONG</b>	<b>PROJECT LDR</b>	<b>WILSON (L)</b>	
<b>MORRIS</b>	<b>LAINAS</b>			
<b>STEELE</b>	<b>BENAROYA</b>	<b>HARLESS</b>		
	<b>VOLLMER</b>			

**EXTERNAL DISTRIBUTION**

✓1 - LOCAL PDR Walhalla, S. C.	(1)(2)(9)-NATIONAL LAB'S	1-PDR-SAN/LA/NY
1 - DTIE(ABERNATHY)	1-R.Schoonmaker, OC, GT, D-323	1-GERALD LELLOUCHE
1 - NSIC(BUCHANAN)	1-R. CATLIN, E-256-GT	BROOKHAVEN NAT. LAB
1 - ASLB(YORE/SAYRE/ WOODARD/"H" ST.	1-CONSULTANT'S	1-AGMED(WALTER KOESTER
✓16 - CYS ACRS <del>WOLFF</del> SENT TO LIC ASST	NEWMARK/BLUME/AGBABIAN	RM-C-427-GT
E. Goulbourne 7-19-73	1-GERALD ULRIKSON...ORNL	1-RD..MULLER..F-309 LGI

Regulatory

File

# DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28201

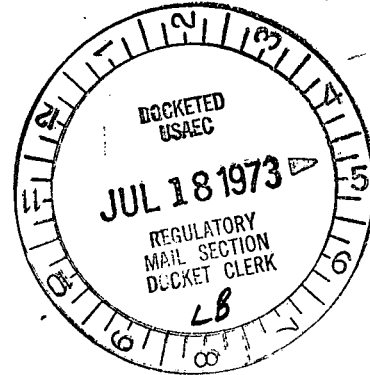
A. C. THIES  
SENIOR VICE PRESIDENT  
PRODUCTION AND TRANSMISSION

P. O. Box 2178

July 17, 1973

Mr. Angelo Giambusso  
Deputy Director for Reactor Projects  
Directorate of Licensing  
U. S. Atomic Energy Commission  
Washington, D. C. 20545

Re: Oconee Nuclear Station  
Docket Nos. 50-269, -270, and -287



Dear Mr. Giambusso:

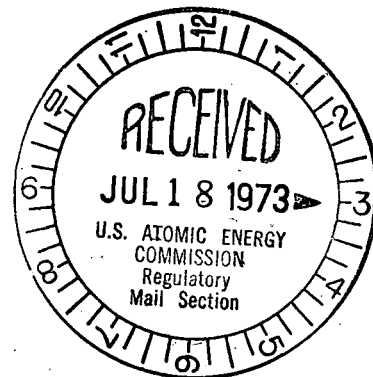
As discussed with Mr. R. C. DeYoung and other members of your staff during their visit to Oconee Nuclear Station on June 29, 1973, please find enclosed Revision 1 to MDS Report No. OS-73.2, "Analysis of Effects Resulting from Postulated Piping Breaks Outside Containment for Oconee Nuclear Station, Units 1, 2, and 3." Please follow the attached insertion instructions for incorporating this revision in the subject report.

Very truly yours,

A. C. Thies

ACT:vr

Enclosure



5531

INSTRUCTION SHEET  
FOR INSERTION OF REVISION 1 TO  
ANALYSIS OF EFFECTS RESULTING FROM POSTULATED PIPING BREAKS  
OUTSIDE CONTAINMENT FOR OCONEE NUCLEAR STATION  
UNITS 1, 2, AND 3

DOCKET NOS. 50-269, -270, AND -287  
MDS REPORT NO. OS-73.2

Replace Table 4.2 and Figure 4.2-2 in the report dated April 25, 1973  
with the revised Table 4.2 and Figure 4.2-2.

Replace Question 3 of Supplement 1 to the report dated June 22, 1973  
with the revised Question 3.

Table 4.2

Page 1 of 2

POSTULATED PIPE BREAK - STATION MODIFICATIONS AND SCHEDULE

System and Postulated Break Location (Case no.)	Required Station Modification	Estimated Time to Implement	Remarks
Main Steam, 01A			
1.b. Penetration Room East Line - Terminal end	Install light weight blowout panels in north and east wall of East Penetration Room	6 months	See Fig. 4.2-1.b
	Reinforce Battery Room walls, remove existing restroom, shield LP Inj. line.	6 months	& Fig. 4.2-1.b
	*Reroute electrical cable in East Penetration Room.	3 months	
Auxiliary Steam for Startup, 02A			
3. All terminal ends and any of consequence	Install Emerg. FDW Bypass lines around postulated pipe break area for both Stm Generators	6 months	See Fig. 4.2-2
Main Feedwater, 03			
4.b. FDW Pump Discharge thru HP FDW Htrs. to Turb. Bldg. Wall - any of consequence	Install Emerg. FDW Bypass lines around postulated rupture area for both steam generators	6 months	See Fig. 4.2-2
4.c. FDW Pump Discharge from Turb. Bldg. wall to R. Bldg. -terminal end	Install Main FDW restraints between R. Bldg. anchor and isolation check valves	6 months	See Fig. 4.2-4
Condensate Booster Pump Discharge, 07B			
7. All terminal ends and any of consequence	Install Emerg. FDW Bypass line from Unit 2 around postulated rupture area tying into bypass lines described in 3 and 4.b. above.	6 months	See Fig. 4.2-2

Rev. 1 7-16-73

\*Cable will be rerouted in preference to previously proposed impingement deflector.



Question 3

Describe how the battery room walls will be reinforced to prevent overpressurization, and state stress levels used for reinforcing members.

Answer

Battery room walls will be reinforced with a 1/2" thick steel plate skin stiffened by wide flange beams anchored to the building structural concrete. Maximum stress in 1/2" plate skin = 25,795 psi. Maximum stress in wide flange beam = 36,000 psi. All materials are ASTM A36 carbon steel selected for a design pressure of 5.7 psi.

(Revised plate thickness from 5/8" to 1/2")